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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	.CONFIRMATION NO
09/653,336	08/31/2000	Kenichi Takekawa	196124US2	4688
22850 7:	590 06/23/2005		EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			SHAPIRO, LEONID	
			ART UNIT	PAPER NUMBER
			2677	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/653,336	TAKEKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Leonid Shapiro	2673				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a r n. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on (01/14/05.					
· · · · · · · · · · · · · · · · · · ·						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•				
4) ⊠ Claim(s) 21-24 and 27-39 is/are pending in 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 21-24 and 27-39 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	ndrawn from consideration.					
Application Papers						
9) The specification is objected to by the Exa		by the Evaminer				
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the co	orrection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No I received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	Paper No(Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 				

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakazawa et al. (US Patent No. 6,492,633) in view of Flowers et al. (US Patent No. 4,918,262) and Sato et al. (US Patent No. 6,225,986 B1).

As to claim 21, Nakazawa et al. teaches a coordinate input-detecting apparatus including a touch panel to be touched by a pointer, coordinate input-detecting apparatus (Col. 1, Lines 7-10) comprising:

a substantially flat two-dimensional coordinate input-detecting area configured to receive insertion of the pointer, substantially flat two-dimensional coordinate input-detecting area being formed in front of the touch panel and having a prescribed depth (See Fig. 1-2, items 10, S, Col. 4, Lines 30-38);

an optical unit, configured optically detect the pointer inserted into the coordinate input detecting area and to generate a detection signal based on the detection (See Fig. 1, items 1a, 1b, 3a, 3b, 10, S, Col. 4, Lines 39-63); and

a controller configured to calculate coordinates designated by the pointer in accordance with detection signal (See Fig. 3, item 5 and Fig. 9, items 1a, 1b, P, from Col. 10, Line 55 to Col. 11, Line 40);

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wherein controller calculates the coordinates based on detection signal exceeding a second threshold value between the pointer and the optical unit (See Fig. 4, items 5, 32a-35a, Ref and Fig. 6, item Ref),

and wherein a lowest level of second threshold value enables detection of the pointer at a farthest point from the optical unit (See Figs. 6(a), 7(b), items Q00, Ref, OUTPUT SIGNAL, Col. 9, Lines 36-45).

Nakazawa et al. does not show optical unit recognize insertion of the pointer when detection signal exceeds a first predetermined threshold value, allowing a coordinate calculation operation.

Flowers et al. teaches optical unit recognize insertion of the pointer when detection signal exceeds a first predetermined threshold value (See Fig. 5, item 1, Col. 8, Lines 7-16), allowing a coordinate calculation operation (See Fig. 5, item A, Col. 8, Lines 16-19 and Fig. 2, item 23).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teaching of Flowers et al. into Nakazawa et al. system in order to utilize plural thresholds for tracking (see Col. 2, Lines 55-58 in the Flowers et al. reference).

Nakazawa et al. and Flowers et al. do not disclose the second threshold value being changed in accordance with a distance.

Sato et al. teaches the second threshold value being changed in accordance with a distance (See Fig. 9, items 402-403, Col. 7, Lines 53-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teaching of Sato et al. into Flowers et al. into Nakazawa et al. system in order to consider the attenuation of the detection level (See Col. 2, Lines 56-59 in the Sato et al. reference).

As to claim 22, Nakazawa et al. teaches the detection signal exceeds the second threshold value when the pointer almost contacts the touch panel (See Fig. 7, items Ref, Q00, Col. 10, Lines 6-12).

As to claims 23-24, Nakazawa et al. teaches the second threshold unit (in the reference is equivalent to Ref) is determined in accordance with a distance between the pointer and the optical unit (in the reference decreases with elapse time (scanning angle becomes smaller) from the start operation is equivalent to the distance) (See Fig. 7, item Ref, Col. 9, Lines 51-53).

2. Claims 27-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakazawa et al. and Flowers et al., Sato et al. as aforementioned to claims 21-24 above and in view Fumihiko et al. (JP No.09319501 A).

As to claim 27-30, Nakazawa et al. and Flowers et al. do not teach about first and second optical devices each having a light source and a light acceptance unit, wherein the second threshold value is set and used in comparing with detection signals generated by a the first and second optical units.

Fumihiko et al. shows two optical units installed in adjacent corners (See Drawing 1, items 1-3, k1. k2 and Detailed description, 0007).

It would have been obvious to one having ordinary skill in the art at the time of the invention to use first and second optical units, as shown by Fumihiko et al. in Nakazawa et al. and Flowers et al., Sato et al. device to provide a miniaturized high-reliability detector of simple configuration (See Problem to be solved in Fumihiko et al. reference).

As to claim 31-34, Nakazawa et al. teaches optical units include reflection mirrors each disposed on prescribed sides of the coordinate input-detecting area, reflection mirrors having surfaces whose every portions return light beam to the light source (See Fig. 1, item 7, Col. 4, Line 39-51).

Nakazawa et al. and Flowers et al., Sato et al. do not show optical units being disposed at corners on the coordinate input detecting area.

Fumihiko et al. teaches optical units being disposed at corners on the coordinate input detecting area (See Drawing 1, items 1-3, k1. k2 and Detailed description, 0007).

It would have been obvious to one having ordinary skill in the art at the time of the invention to use optical units being disposed at corners on the coordinate input detecting area, as shown by Fumihiko et al. in Nakazawa et al. and Flowers et al., Sato et al.device to provide a miniaturized high-reliability detector of simple configuration (See Problem to be solved in Fumihiko et al. reference).

As to claims 35-38, Nakazawa et al. teaches optical unit further includes a probe light generating device configured to generate and swing and irradiate probe lights toward the reflection mirrors (See Fig. 2, items 11a, 11b, from Col. 4, Line 61 to Col. 5, Line 13).

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As to claim 39, Sato et al. teaches second threshold is decreased as a distance is increased (See Fig. 4, item 103, Col. 7, Lines 13-21).

Response to Amendment

3. Applicant's arguments filed on 01.14.05 with respect to claims 21-24, 27-38 have been considered but are most in view of the new ground(s) of rejection.

Telephone inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LS 06.15.05

> VIJAY SHANKAR PRIMARY EXAMINER